Interference

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	3	((coil$3 wind$3 reel$3) near6 (metal$3 long elongat$3) and mandrel and guid$3 and (contain$3 keep$3 hold$3) near4 (device apparatus element) and (first second) near2 position and annular near6 (channel co$1axial$2 axial$2) and annular near2 (tooth protrusion exten$4)).clm.	US-PGPUB	OR	ON	2009/06/15 11:50
S1	0	"10597262"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/08/31 22:09
S2	0	"10/597262"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/08/31 22:09
S3	4	US-4143834-$.DID. or US-3507458-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/08/31 22:18
S4	3	US-3592399-$.DID. or US-3945585-$.DID. or US-3527077-$.DID.	USPAT	OR	ON	2008/08/31 23:07
S5	13	("2971707" | "2971708" | "3186653" | "3208680").PN. OR ("3592399").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/31 23:10
S6	11	("0464234" | "1056410" | "1823990" | "3592399" | "3945585" | "4664329" | "5409180" | "6666398").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/31 23:10
S7	2	("1823990").URPN.	USPAT	OR	ON	2008/08/31 23:11
S8	1	("3527077").URPN.	USPAT	OR	ON	2008/08/31 23:14
S9	0	EP-1126934-$.DID.	EPO	OR	ON	2008/08/31 23:20
S10	1	EP-1126934-$.DID.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:20

S11	1	EP-1126934-$.DID.	USOCR; FPRS; EPO; DERWENT; IBM_TDB	OR	ON	2008/08/31 23:22
S12	2	("6318660").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/08/31 23:22
S13	12	("1660608" | "2529185" | "2789775" | "3945585" | "4664329" | "4674701" | "5465922" | "5769342" | "5772151").PN. OR ("6318660").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/31 23:23
S14	0	2004A000007	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:25
S15	0	UD2004A000007	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:25
S16	0	IT-2004A000007-$.did.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:26
S17	0	IT-2004000007-$.did.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:26
S18	0	2005WO-IB000105-$.DID.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:27
S19	1	WO-2005000105-$.DID.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:27
S20	2	WO-2005039794-$.DID.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:37
S21	0	IT-UD20040007A-$.did.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:37
S22	0	IT-UD2004A0007-$.did.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:38
S23	0	IT-UD2004A000007-$.did.	USOCR; EPO; DERWENT	OR	ON	2008/08/31 23:38
S24	920	(242/362,362.2,571,576,576.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/01 19:57

S25	19	S24 and (roll$2 bar product material) near10 ((guid$3 secur$3 distal end feed fed seat$3) and (rectang$4 squar$3 trapezoid$2 triang$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:01
S26	1	("1981556").URPN.	USPAT	OR	ON	2008/09/01 20:11
S27	12	("1660608" | "2529185" | "2789775" | "3945585" | "4664329" | "4674701" | "5465922" | "5769342" | "5772151").PN. OR ("6318660").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/01 20:12
S28	158	S24 and (roll$2 bar (product material) near4 (metal$3 steel alloy$2)) near4 (coil$3 reel$3 wind$3 spool$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:15
S29	145	S28 not (S25 S26 S27)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:16
S30	11	("0464234" | "1056410" | "1823990" | "3592399" | "3945585" | "4664329" | "5409180" | "6666398").PN. OR ("7246767").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/01 20:21
S31	405	242/407.1,470,579,580,587,587.2.ccls. and (roll$2 bar (product material) near4 (metal$3 steel alloy$2)) near4 (coil$3 reel$3 wind$3 spool$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:36
S32	398	S31 not (S25 S26 S27 S29 S30)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:36
S33	239	S32 not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:38

S34	62	242/362,362.2,571,576,576.1,407.1,470,579,580,587,587.2.ccls. and (roll$2 bar $1stock malleable (product material) near4 (metal$3 steel alloy$2)) near20 ((coil$3 wind$4) and (catch$4 hold$3 secur$3 wedg$4 friction$4) and (end distal diameter surface outer cross$1section) and (protru$4 tooth exten$4 pincer)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:50
S35	0	242/362,362.2,571,576,576.1,407.1,470,579,580,587,587.2.ccls. and (yield adj (stress strength)) near20 ((coil$3 wind$4) and (catch$4 hold$3 secur$3 wedg$4 friction$4) and (end distal diameter surface outer cross$1section) and (protru$4 tooth exten$4 pincer)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:52
S36	5	S34 not (S25 S26 S27 S29 S30 S33)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:53
S37	5	("3536274").URPN.	USPAT	OR	ON	2008/09/01 20:55
S38	10	242/362,362.2,571,576,576.1,407.1,470,579,580,587,587.2.ccls. and (roll$2 bar $1stock malleable (product material) near4 (metal$3 steel alloy$2)) near20 ((coil$3 wind$4) and (catch$4 hold$3 secur$3 wedg$4 friction$4) and (end distal diameter surface outer cross$1section) and (abut$4)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:57
S39	0	S38 not (S25 S26 S27 S29 S30 S33 S36)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 20:59
S40	50	(("6955278") or ("3592399") or ("3680483") or ("4474053") or ("3630801") or ("3648736") or ("4125423") or ("4428222") or ("4429561") or ("4571926") or ("5603200") or ("20020078970") or ("20040197219") or ("20040206781") or ("20050115208") or ("20060021298") or ("20070010387") or ("3816043") or ("3824825") or ("3982904") or ("4074958") or ("4532690") or ("4535832") or ("4546816") or ("4620660") or ("4754911") or ("4765529") or ("4770620") or ("4907957") or ("5645668") or ("5690007") or ("5711174") or ("5855544") or ("20040074327") or ("3861692") or ("3890083") or ("RE28540") or ("3926254") or ("3940834") or ("4083409") or ("4286791") or ("4289294") or ("4490130") or ("4555208") or ("4564487") or ("4579174") or ("4591323") or ("4618000") or ("4741191") or ("4749037")).PN.	US-PGPUB; USPAT	OR	OFF	2008/09/01 20:59

S41	49	S40 not (S25 S26 S27 S29 S30 S33 S36 S38)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:00
S42	9	242/362,362.2,571,576,576.1,407.1,470,579,580,587,587.2.ccls. and (roll$2 bar $1stock malleable yield$4 (product material) near4 (metal$3 steel alloy$2)) near20 ((coil$3 wind$4) and (catch$4 hold$3 secur$3 wedg$4 friction$4) and (end distal diameter surface outer cross$1section) and (rib$4)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:15
S43	11	("0464234" | "1056410" | "1823990" | "3592399" | "3945585" | "4664329" | "5409180" | "6666398").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/01 21:26
S44	131	242/472.5,476.1.ccls. and (roll$2 bar$1stock malleable yield$4 (product material) near4 (metal$3 steel alloy$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:35
S45	42	S44 and ((coil$3 wind$4) and (catch$4 hold$3 secur$3 wedg$4 friction$4) and (end distal diameter surface outer cross$1section) and (rib$4 abut$4 protru$4 rib$4 flar $3 exten$4 rais$2)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:36
S46	5	S44 not S45 not (paper yarn strand cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:38
S47	227	242/362,362.2,571,576,576.1,407.1,470,579,580,587,587.2.ccls. and (protru$4 tooth exten$4 pinc$3 abut$5 rib$4 rais$2 channel slot aperture opening recess) near8 ((hold$3 secur$3 catch$3 friction$4 rotat$4 turn$4) and (coil$3 reel$3 spool $3 wind$4) and (wire roll$2 malleable yield$4 bar)) not (yarn paper cloth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:49
S48	95	S47 not (S25 S26 S27 S29 S30 S33 S36 S38 S41 S42 S43 S44 S45)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/01 21:52
S49	10	("2598398").URPN.	USPAT	OR	ON	2008/09/01 21:57

S50	15	("2271139" | "2598398" | "3107875" | "3244380").PN. OR ("3934836").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/01 21:59
S51	922	(242/362,362.2,571,576,576.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/02/23 05:59
S52	1	10/597262	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 06:04
S53	337	B21C047/30.ipc. B21C047/32.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 07:07
S54	332	S53 not S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 07:07
S55	2937	242/407.1,470,579,580,587,587.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 07:20
S56	2905	S55 not (S51 S54)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 07:21
S57	126	S55 and (mandrel expan$4 near2 (core shaft reel spool))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/02/23 07:24

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